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09/501,589	02/10/2000	Osamu Hamamoto	35.C14248	4095	
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FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112			EXAMINER		
			MISLEH, JUSTIN P		
			ART UNIT	PAPER NUMBER	
			2612	(_	
			DATE MAILED: 08/14/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) App					
Examiner	•••	,	Application No.	Applicant(s)	$\langle A \rangle$
Dustin P Milsleh 2812			09/501,589	HAMAMOTO, OSAM	U
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Estencios from empty be wished under the provisions of 3 CFR 1.1360.] In no event, however, may a reply be limity filed after 5X (0) MONTH(S) from the mailing date of this communication. Grey within the statisticy relievance of the provision of the mailing date of this communication. Fe platue to reply within the statisticy replievalling with will will be considered timely. If NO period for reply is specified before, the mailing date of this communication. Fe platue to reply within the statisticy replievalling will will replievally will be considered timely. Fallule to reply within the set or extended period for reply will, by statistic, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Molite between the anthress mortia are the mailing date of this communication. Fe platue to reply within the statistics of the communication. Fallule to reply within the set or extended period for reply will, by statistic, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Molite between the application and the communication, even if timely filed, may reduce any. This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-12 is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) 1-12 is/are allowed. 8) Claim(s) 1-12 is/are allowed. 8) The specification is objected to by the Examiner. 10) The drawing(s) filed on 10 February 2000 is/are: a) accepted or b) objected to by the Examiner. 10) The drawing(s) filed on 10 February 2000 is/are: a) accepted or b) objected t		Office Action Summary	Examiner	Art Unit	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of times may be available under the provisions of 37 CFR 1.736(a). In no event, however, may a reply be timely filed Extensions of times may be available under the provisions of 37 CFR 1.736(a). In no event, however, may a reply be timely filed Extensions of times may be available under the provisions of 37 CFR 1.736(a). In no event, however, may a reply be timely filed Extensions of the provision of the provision of 37 CFR 1.736(a). In no event, however, may a reply be timely filed If No period for reply is layer the maintime statutory period will apply and will expire statution of the provision the provision of the p	_	_	Justin P Misleh	2612	
THE MAILING DATE OF THIS COMMUNICATION. Exeminos of time mpt be available under the provisions of 3 CPR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MCNT151 from the mailing date of this communication. If the period or crypt specifies drown is less than this (70) diary, a reply within the attatory minimum of tainy (70) largy with the communication or the period or crypt specifies of reply specifies or crypt specifies or reply vertice in the set or obtended prior of the reply will be the state of the communication. Failure to reply vertice the set or obtended prior of the reply will be yet stated, cause the application to become ABANDONED (35 U.S.C. § 133). Failure to reply vertice the set or obtended prior of the reply will be yet stated, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office after than time amongs after the mailling date of this communication, even if timely filed, may reduce any seating patient time adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filled on	Period fo		opears on the cover sheet v	vith the correspondence addre)SS
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DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 6 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claim 6 recites the limitation "driving the photoelectric conversion area to said semiconductor substrate" in lines 14 and 15. There is insufficient antecedent basis for this limitation in the claim. The limitation will be interpreted as "driving the photoelectric conversion areas."

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.



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- 6. Claims 1 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Murakami. For the following rejections please refer to figures 1 5, 7a, and 8 10 and columns 2 (lines 23 41 and 54 68), 3 (lines 1 61), 4 (lines 1 4), and 5 (lines 3 43).
- 7. For claim 1, Murakami discloses, an image input apparatus comprising:

 a plurality of photoelectric conversion devices (patterned and layered semiconductor layer 3 of figure 5d) respectively including photoelectric conversion areas (patterned and divided semiconductor layer 3 of figure 5d); and

a light guide member (fiber optic plate -1 – of figure 3) for guiding light to be incident on the photoelectric conversion area included in each of said photoelectric conversion devices,

wherein said light guide member (1) includes connection means (first and second electrodes – 2 and 4, respectively – of figures 1, 5d, and 7a) for connecting said plurality of photoelectric conversion devices (3) so as to transmit electrical signal between said plurality of photoelectric conversion devices (see column 5, lines 28 – 31).

For claim 6, Murakami discloses, an image input apparatus comprising:
 a plurality of photoelectric conversion devices (patterned and layered semiconductor
 layer - 3 - of figure 5d) respectively including photoelectric conversion areas (patterned and divided semiconductor layer - 3 - of figure 5d); and

a light guide member (fiber optic plate -1 – of figure 3) for guiding light to be incident on the photoelectric conversion area included in each of said photoelectric conversion devices,

wherein said light guide member (1) includes transmission means (first and second electrodes -2 and 4, respectively - of figures 1, 5d, and 7a) for sending an electrical signal for driving the photoelectric conversion areas (see column 5, lines 28 - 31).



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- 9. As for claims 2 and 7, Murakami discloses, an apparatus wherein said connection/transmission means includes a terminal and an interconnection first and second electrodes 2 and 4, respectively of figures 1, 5d, and 7a).
- 10. As for claims 3 and 8, Murakami discloses, an apparatus wherein the electrical signal includes a power supply voltage for driving the photoelectric conversion area (see figure 8 and column 5, lines 28 31).
- 11. As for claims 4 and 9, Murakami discloses, an apparatus wherein the electrical signal includes a control signal for driving the photoelectric conversion area (see figure 8 and column 5, lines 28 31).
- 12. As for claims 5 and 10, Murakami discloses, an apparatus wherein said photoelectric conversion device includes driving means for driving the photoelectric conversion area (see column 5, lines 28 31).

Claim Rejections - 35 USC § 103

- 13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 14. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murakami.
- 15. For claim 11, an image input system comprising:

 a plurality of photoelectric conversion devices (patterned and layered semiconductor



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layer -3 – of figure 5d) respectively including photoelectric conversion areas (patterned and divided semiconductor layer -3 – of figure 5d); and

a light guide member (fiber optic plate -1 – of figure 3) for guiding light to be incident on the photoelectric conversion area included in each of said photoelectric conversion devices,

wherein said light guide member (1) includes connection means (first and second electrodes – 2 and 4, respectively – of figures 1, 5d, and 7a) for connecting said plurality of photoelectric conversion devices (3) so as to transmit electrical signal between said plurality of photoelectric conversion devices (see column 5, lines 28 – 31).

Murakami do not disclose image processing means for processing an image signal output from said photoelectric conversion device and display means for displaying the signal from said image processing means. Official Notice is taken that both the concepts and advantages of including an image processing means and a display means are well known and expected in the art. It would have been obvious to include an image processing means for noise reduction, image zoom, image focus, image arrangement, etc. and a display means to view the finished image for preview or entertainment.

16. For claim 12, Murakami discloses, an image input apparatus comprising:

a plurality of photoelectric conversion devices (patterned and layered semiconductor layer -3 – of figure 5d) respectively including photoelectric conversion areas (patterned and divided semiconductor layer -3 – of figure 5d); and

a light guide member (fiber optic plate -1 – of figure 3) for guiding light to be incident on the photoelectric conversion area included in each of said photoelectric conversion devices,



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wherein said light guide member (1) includes transmission means (first and second electrodes -2 and 4, respectively - of figures 1, 5d, and 7a) for sending an electrical signal for driving the photoelectric conversion areas (see column 5, lines 28 - 31).

Murakami do not disclose image processing means for processing an image signal output from said photoelectric conversion device and display means for displaying the signal from said image processing means. Official Notice is taken that both the concepts and advantages of including an image processing means and a display means are well known and expected in the art. It would have been obvious to include an image processing means for noise reduction, image zoom, image focus, image arrangement, etc. and a display means to view the finished image for preview or entertainment.

Conclusion

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure for the following reasons: The prior art teaches of the use of fiber optic plates in ether image input devices or image display devices. The fiber optic plates in each invention include connection means and transmission means created using either photoetching or deposition techniques.



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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin P Misleh whose telephone number is 703.305.8090. The examiner can normally be reached on Monday - Friday, 8 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy R Garber can be reached on 703.305.4929. The fax phone numbers for the organization where this application or proceeding is assigned are 703.872.9314 for regular communications and 703.872.9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is 703.306.0377.

JPM August 7, 2003

WENDY R. GARBER SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600